



NCERC Status

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Operability – Safety Systems

- All Safety Systems supporting the four critical assemblies are Operable
 - Nuclear instrumentation upgrades are needed

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Comet Critical Assembly

- Suffered a bearing failure in the slide assembly in August 2015.
 - Required:
 - Defueling and cleaning the machine
 - A design change for the slide assembly
 - Procurement and installation of parts
 - Post modification testing
 - Refueling of the assembly and reactivity measurements... All in time to support the February JAEA experiment.
- Extent of Condition (no other issues found)

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Flattop and Planet Critical Assemblies

- Flattop required a valve replacement in CY15
 - Based on this issue and the Comet slide issue, we completed an Extent of Condition for SS components to ensure no further design issues exist
 - No other issues
- We are currently looking for new encoders for Planet
 - No other issues

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Godiva Critical Assembly

- Executed Godiva Restart operations during the last quarter of CY15
- Received authorization to resume unrestricted Godiva operations on 8 January 2016
- No other issues

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NCERC Engineering Status

- Design Changes
 - 12 currently open (range from the Control Room upgrade project to simple drawing updates)
- Nonconformance Reports
 - 11 issued last CY, 1 currently open
- Temporary Modifications
 - 1 issued and closed last CY

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The Paper Side of NCERC

- We must maintain (track, review, update, approve and process):
 - 52 written procedures (SOPs, surveillances, maintenance, etc.)
 - 8 Integrated Work Documents
 - 23 Plans
- This count only includes NCERC “owned” documents

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Future Challenges at NCERC

- We must continue to improve RWPs to protect workers while allowing operational flexibility and efficiency
- We are continuing to transition from the NEO side to the NCERC side (Non-trivial: involves materials moves, procedure changes, crit safety analysis, work control, training and qualifications, vault modifications)
- We need a nuclear instrumentation upgrade
- RCT resources are still extremely tight at the DAF
 - Improvements to the RadCon program
 - Increasing number of operations and construction activities

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Future Challenges at NCERC (continued)

- DAF construction projects will continue to create operational scheduling challenges
- As NEN-2 continues to develop its portfolio of customers and experiments, NCERC is challenged by the limitations of the DSA or interpretations thereof. Changes are coming but they lag behind the evolution of experimental needs.

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A week at NCERC...

- 3 concurrent Hot, Active Operations conducted in separate NCERC buildings, consisting of:
 - Dozens of entries into Contamination Areas
 - Dozens of building entries/exits with 0 security incidents
 - 3 Godiva Startup evolutions with the largest Godiva burst at the DAF (269°C ΔT)
 - De-conflicting RWP issues and training issues
 - Successful concurrent operations in 2 contamination hoods
 - 64 pieces of NCERC SNM characterized
 - 16 drums repackaged, resulting in the permanent transfer of material from NEO to NCERC
 - Critical assembly maintenance conducted in an HCA
 - Tour for VIPs
 - Multiple significant material moves

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Questions?

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